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B.R. Stein 1988

China

<u>Catalogue</u> #1-111 (Accn. 12781)

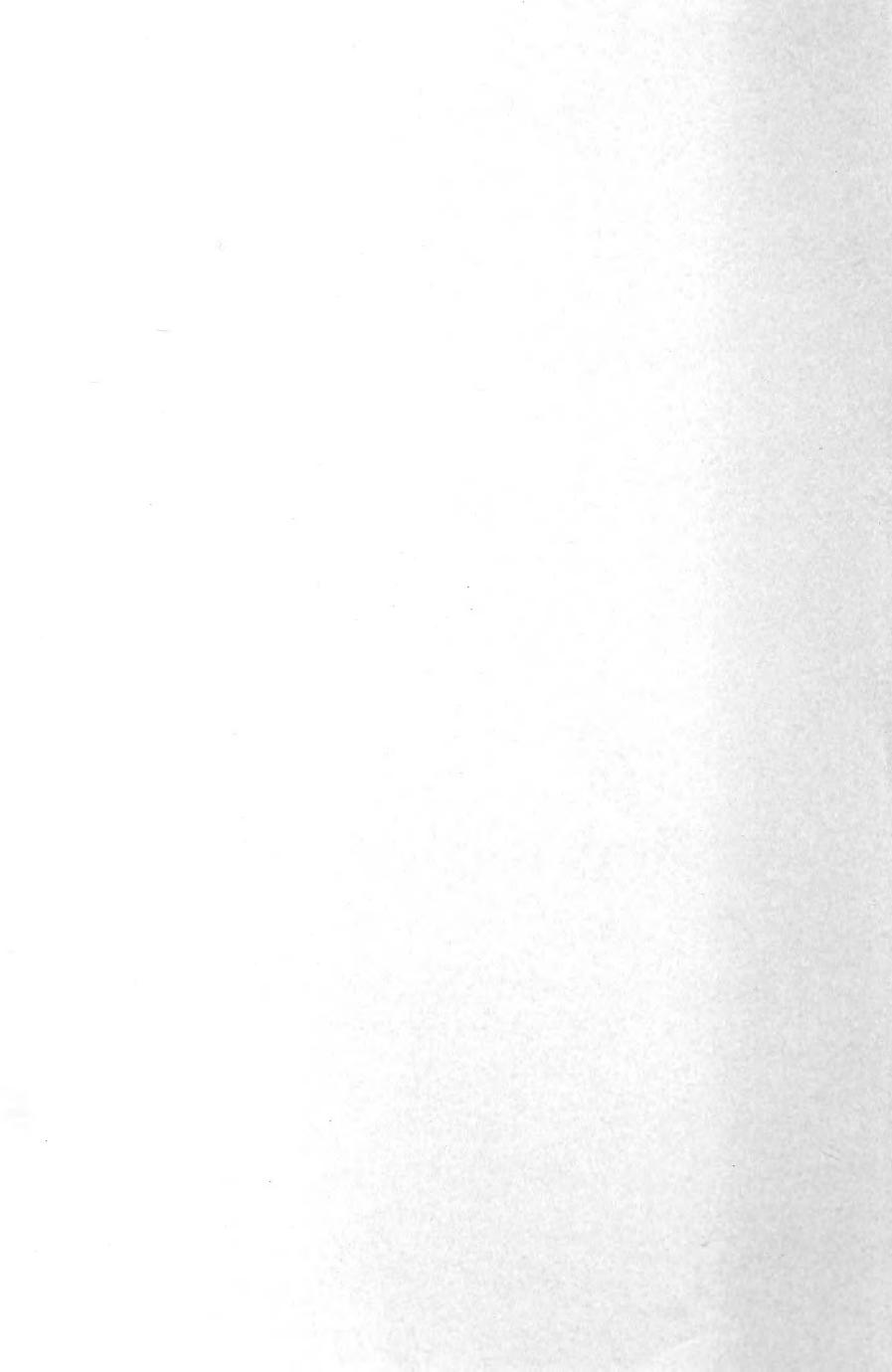
Journal



B.R. Stein 1988

China Menglung, Yunnan Prov.

Catalogue #1-111 (Accn. 12781)



Stein, BR. 1988

ca. 2 km. from Menglung, Frist. og Ecology Field Sta., Menglung, Yunnan, PRC Y10600 Rousettus, 8 110-10-18-20=509 forearm 65 mm. alcoholic, tissues - BRS ectoparasites - A.G.Cleveland, Texas Wesleyan stomach/intestines - G. Hinkling, New Zealand 2. 410601 Rousettus 8 121-16-21-23-62 gr. forearm 76 mm alc., tissues - BRS ectos - A.G. Cleveland 3. Y 10602 Ratus nitidus (?) 2 310-148-30-19=78gr. ectos - Gr. Hickling, New Zealand Gut length - " tissues, alc. - BRS eyes - V. choate # 2094204. SNAKE Colubb Spiralis SV 22.3 mm Killed 3 Aug 88 tissues - minimal coll. by Reservoir Dam, Huiron, Beijing Muncipaldy 29 July 1988 (50 km. NE Beiling) Ventral surface & tail scraped 8 105-13-20-20 =44 gr. forearm 65 mm 5. 110603 Rousettus alc., tissues - BRS

ectos - J. Martin

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Stein, B.R. 1988 Menglung Field Sta. - CONT. 3 Aug. 6. \$10604 Rousettes \$ 102-18-21=37g. forearm 64 mm alc., tissues - BRS ectos - M. Cleveland 7. Y10605 Rousettus & 110-17-16-18=35gr. forearm 65mm calcar 5 mm alc., tissues - BRS Ectos - J. Martin 410606 Rousettus 9 108-14-15-18=33 g. forearm 65mm alcar 5 mm. ale., tissues - BRS Ectos - J. Martin DEAD IN BAG 9. Y10607 Rouse Hus 8 138-22-21-19=70gr. forearm=75 calcar - 6 mm alc., tissues - BRS Ectos - J. Martin DEAD IN BAG 410608 Rousettus & 118-15-17-19=41gr. forearm=65 calcar = 6mm. alc., tissues - BRS Ectos - J. Martin Y 10609 Scotophilus heathis 144-61-13-18-36 8. forem-60 mm tagus=6 + one vial blood //. alc., tissues -BRS Ectos - M. Cleveland Hemidachylus sp. LIZARD 12. #209421 took tissues - minimal on window ledge of Field sta. bldg. - 8:00 pm.

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Stein, B.K.	
1988	
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	Rubber Trees, Tear, + Coffee Plant Cultivated "Povest" adjacent to
	Rubber Trees, Tear, + Coffee Plant Cultivated "Povest" adjacent to small patch of 20 forest, Kunning Agric. Exper. Stat., Mengling, Yunnan
- Aug. 13.	TOAD coll. 4 Aug. Killed 5 Aug.
Aug. 13.	tissues, alc BR8 + blood
# 209 42311	En laboratory at Kunming Experimental Stat., Menglung, Yunnas
1019.	SMALL LIZARD Herri & Remin & Remin & P.
	no tissues
	En bedroom at Kunning Experimental Stat., Menglung, Yunnan
15.	Hipposideros bicolor 973-27-6-22=6g. foreami45
The same of the sa	
	Y10610 -skin +skull - A.G. Cleveland + partial skel. + tissues - BRS H, L, Muscle
INC.	
7807	USVANERULAT ROOM
	Primary Forest Areatt 1, Km. 51-52 on road to Menglung,
	Yunnan Prov., PRC
16.	
209426	no tissues
17.	
9.	tissues - BRS (2 via(s)
	Skint Skull - A.G.C. + partial skel.
	gut length - G. Hickling
Ken	MANUREN eyelens - V. Choate KILLED BY HUNTER
	In bedroom at Kunning Experimental Sta., Menglung, Yunnan
209422 18.	GECKO Heuridadylus so.
	no tissues
6 Aug.	Near Bridge by Laboratory, Kunming Exper. Sta., Menglung, Yunnan
	Rattus nitidus (?) \$ 307-159-32-18=85g.
) tissues, alc - BRS (2 vials) 6 placental scars (5+1)
	Stomach - G. Hickling nipples regressed.
	7410612 NOECTOS repro. organs - A.G.C.
	14010 · 67 yans = 01.03.00



Primary Forest Area #1, Kunning Exp. Sta., Mengling, Yunnan 6 Aug. 20. Y10613 Form niviventex (7) 324-188-31-25=66g. sharply bicolored tail nipples - 2pr. pectoral

2 pr. pelvic

postlaetating - no places spiny fur, buff belly scars visible - skeleton - body had started to decay NO TISSUES G. Hickling - gut Primary Forest Area# 2, Kummy Exp. Sta., Menglung, Yunnan 7 Aug. 21. 410614 Cynopherus sphinx (?) \$ 89-9-14-18=258. cal car 4.5 mm. Skin + skull - A.G.C. + partial skel. tissues. - B.R.S. NO ECTOS (dead in bag) - prep. 8 Aug. 88 410615 Rousettus £ 103-110-15-A=45 g. foreauce 69 mm calcar 5 mm ECTOS - J. Martin skin, skull, partial skel - A.G.C tissues - BRS 410616 Suncus murinus 7 163-79-15-10=16g. 8 Aug skint partial skel - A.G.C. tissues -BRS gut meas. - Gr. Hickling NO Ectos 9 340-165-32-20=1129. 24 410617 Rathus skin +partial skel - A.G.C. tissues - BRS gut - G. Hicklers ECTOS Wh. belly, tail black, dorsom hendft. grey of wh. edges

tem, B.R.

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Hein, BR. 1988 By Eitchen at Kunning Exp. Sta. Merglung, Yuman 25. Y10618 Rathus 2 334-182-32-24=142gr. very scrotal alc., tissues -BRS gut length - G. Hickling NO ECTOS 26. 410619 Rathes 9 301-152-29-21=879. alc., tissues - BRS nipples 3 inguinal prs., 2 pectore gut length - G. Hickling perforate NO ECTOS age mach Exten 10 Forest area # 1, Kuning Exp. Sta., merghung, Yuman 20942427. small SKINK - no tissues Tropidophorus lidage 9Aug 28. Y 10620 Rhyzomys pruinosus 83430-115-54-22-Collected 4 Aug MENG LUNG STATION Ectos J. Martin Tissues B. Stein (13): Chromosomes V. Choak Alcoholic B. Skin Tesks 20 mm Bot from hunters 29 Y10621 Rousetters ley \$105-10-14-23-40g MENG LUNG STATION forearm: 68mm Calcar: 7mm No Ectos JM ... Eyes V. Choate Skin & partial skel L. Martin Tissues J. Martin 30. 710622 Rousethis len 0-116-12-21-19-52 a MENG LUNG STATION forearm 72mm calcar 6 n Eyes V. Choate Skin & partial skel J. Martin Tissues: J. Martin arentz forearm 72mm calcar 6mm

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Lew, BR. 1988 9 AUG 1988 3/ 4/0623 Rousettus leu. 512010-16-18-40g MENG LUNG STATION forearm: 66 mm Calcar: 7 mm Kedeller morrant Ectos J. Martin Skin & partial skel: J. Martin un #1_ Eyes V. Choate Tissues: J. Martin Chromosomes V. Choate MENGLUNG STATION Forearm 32.3 mm
when plant NO Ectos LUN 0 AUG 1988 32. 410624 Pipistrellus mimus 778-34-7-10-69 Skin & partial skel: A.G.C. Chromosomes V. Charle Tissues: J. Martin Eyes V. Choate 9 123-11-22-18 foreau 74.92 ralcan 7 33. Y10625 Rouse Hus fissues - BRS ECTOS - J. Martin skin, Skull, partial skel - A.G.C. prop. E. Verwers Chromo, eyes - V. Choate 24. 410626 Rousetus 8 120-9-20-19 foranu 73 m alc. prossession & thouse - AGC. ECTOS - J. Martin prep. A.G.C. NO TISSUES 35 410627 Rattus rattus \$345-172-34-23 tail all dark, belly white; 3 pr. sectoral, 3 pr. Durguinal. tizzues, alc - BRS eyes, chromo - V. cheate gave birth in trap to 5 yg (20, 39) Dorsum of le. black bristles mixed of hispid-brown coloration 4. preserved in McDowell's fixative as 410627a-e

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ein, BR. 1988 > Macrophissus sobvinus - K. Koopman 2/10 Area # 2, Kunning Exp. Sta., Menglum, Yunnau Prov., PRC 36. Y10628 Cynopterus sphing (?) 5 85-10-12-17=22gs.

1555ues, alc. -1885 calcar = 3 mm Dead in Net-not picked out for almost 24 hrs. 37. 410629 Rousettus Jen. 8 100-11-15-24=47g. alc, tissues -BRS foream = 73 mm calear = 6 mm No ectos - dead in net. (155 sues may be a bit deteriorated). Wh. along edges of ear, rusty at throat Rubber tree, coffee, tea exper. area, Kunning Exp. Sta., Yunnan 2 Aug. 38. ¥10630 Cynopterus \$110-9-11-22:638. foream 75m ECTOS - A.G.C. pregnant - lg. yg. , 2 lg. abdominal nipples ys, preserved as Y10630a in McDowell's Fixative Skint partial skel + skull -A.G.C. tissues - BRS (2 vials) BANKABBA Byes - V. Choate 10 Forest Area \$2, terming Exp. Stat., Mengling, Yunnan 39. \$10631 Cynopterus sphinx \$ 108-11-15-22 *foreau 75 calcar 5 ECTOS - A.G.C. (+ 1 leech) wt =53 gr. 2 mid abdominal manumae, preg., 1 yg. in saepreserved as 410631 a in McDowell's Fixative Jissues, alc - BRS dorsum et. brown, darker on ends of hair. 40. Happo y10632 Hipposideros Chromo, eyes - V. Chaate ECTOS -A.G.C. tissues-BRS 5 Kin, skull, partial stel - A.G.C.



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Hem BR. 1988 6-10mm-) 1 9mm 12 Aug. Y10632 CONT. F. H. brown fun on inside aut. magin Bat cave, merglung, Yuman Prov. 41. 410633 Rhinolophus 7 70-20-7-18=6.5g. foresm 42 mm ECTOS - AGC. Chromo, eyes - V. Cheate Skint skullt partial skel - A.G.C. +735mes - BRS velvety dorsum, It. brownish Bat Care, Menglung, Yunnan Brov. 8°65-19-6-19=7gr. forem 45 3 Aug. 42. 410634 Rhinolophus Ectos - AGC.

Partial

Sicin T Skelt Skull - A.G.C. eyes - V. Choate epined to reveal on. tissues - BRS animal dead in net over top of cave. (10633 + 34-same sp.) an year 350 m ssan Area #2, Mengling, Yuman Prov. 43. 410635 Cynop terus sphing \$ 110-4-13-18.5=40gr calca 7 skin, skull, partsal skel - 46, C. cangut MAug.

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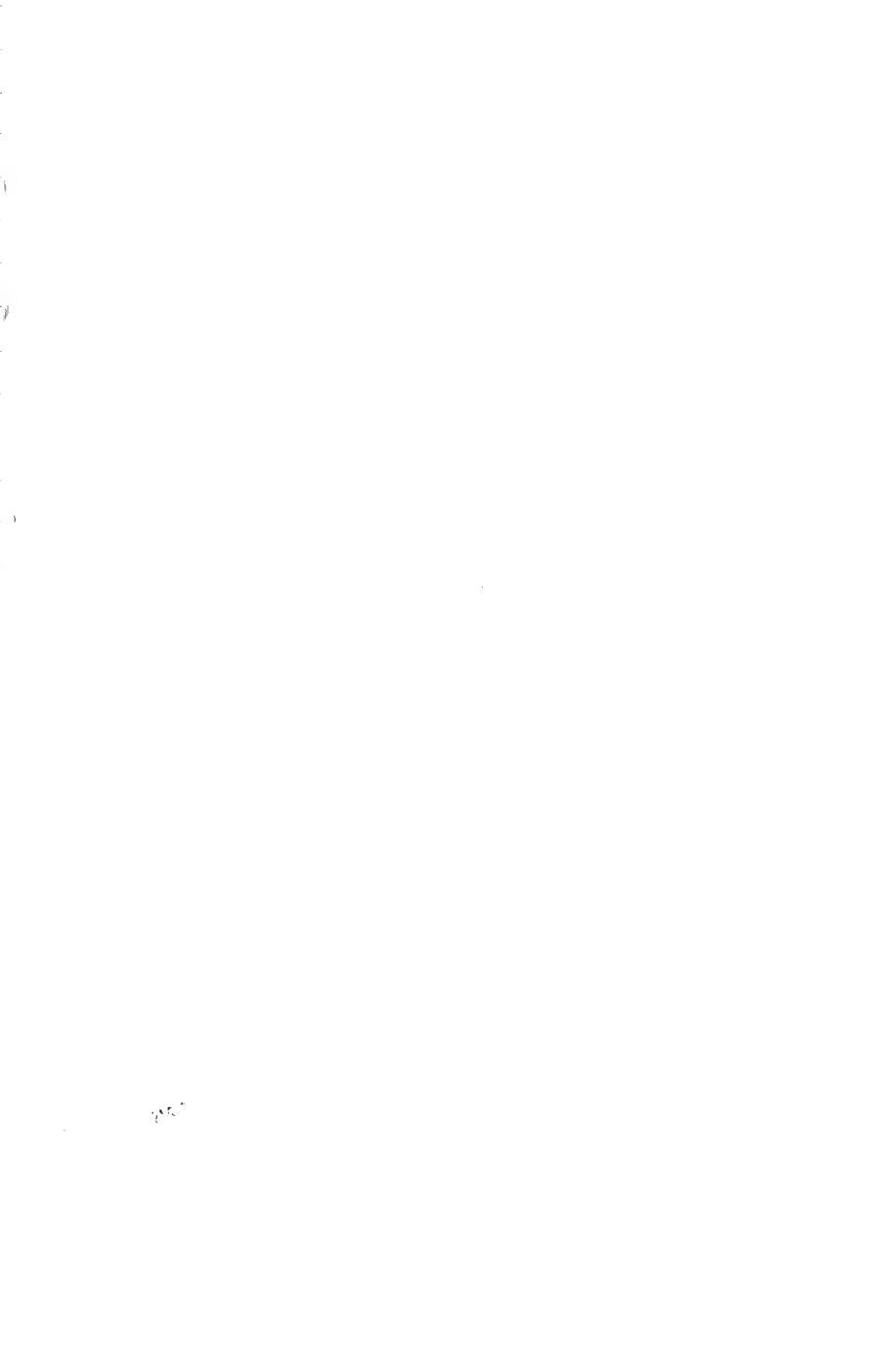
Stein, BR 1988 Bat Cave, mengling, Yuman Rov.

13 Aug. 44. V10636 Rhinolophus \$465-19-6-19-88.

Horeau as 968-19-6-19-88. foreau 45 ECTOS eyes + chronio - V. Choate

155ues - BB

Skin, Skull, skel - AGC lg. capsule on on left ear - hand, calcified, will not open. Another capsule on left pseudotragus+ capsule saved up the lawae. 45 V10637 Hipposideres arminger \$ 155-62-18-32:44 ECTOS chromo - V. Choafe foreau = 90 +735 ves -BRS Skin, skull, partial
Skin, skull, skel -AGC a colra-head-like protuberance, paired, inned. cranial to vaginal opening!? Only right one developed, left one dimenutive. Revoved from Study skin + put in McDowell's \$10638 Pipistrellus minimus \$ 55.30-7-12=381. Skint skull + partial skel -AG.C. foreau - 35 mm no tissues chromo - V. Charte 5kin + skull + partial skel - Acctorium = 44.5 47. 410639 Phinolophus DIED IN BAG tizques -BRS 3 capsules found at base of it-ear; removed.



tein, BR 1988 Area #2 Menglung, Yuman Rov. 13 Aug 48. V10640 Rattus rathes 9370-220-32-25=136 call 12 Aug. 3 pr. maumae Skin, skull, + partial skel - C. wozencraft (A.G.C.) tissues-BRS 3 vials Sut - G. Hickling repro. tract - AGC. EVES, chrome - V. choate 49. 11 Mary 10641 Rousettus leu. \$ 125-16-22-20=5781.

Call. 12 Aug. 1 Pr. mannae tissues, ale - 2 vials - BRS But But Cave, menglung, Yunnan Prov. 50. 410642 Phinolophus roux 1 3"9 70 - 25-10-18=88.
ECTOS alc., +758 ues - BRS (A.G. C may want for ID) 51. 410643 Rousettus 8 98-11-20-17=31gr. NO tissues - DEAD in NET. I was out in field. ye. bet skin + partial skel + skull - AGC. 52. Y10644 Aselliseus stoliczeanus 8378-30-5-11=582 foream 42 mm NO 7,5840 Skin, skull, partial skel -AGC EC705 Wh. breast, dossum It. brown of base hairs whitish

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Stein, BR 1988 #2 Bat Cave, ~ 10 km. Lour sives from cave #1 Y10645 Taphojous 9 130-23-10-28 = 35%. Ectos foream 76 ECTOS Skin, skull, partialskel. - C. Wozenerast (A.G.C.) tissues - BRS 9 116 - 45-16-18 = 25.55. foream = 49 54. V10646 Tadaida prez. = 4/0646a preserved in McDowell's Fixative wrinkle lip Skin, skull, partial skel -AGC. tissues - BRS 8 120-43-11-20= ZZg. 55. 410647 Tadarida boream 49 mm ECTOS winkle lip tissues - BRS Skin, s / cull, partial skel - AGC 410648 Taphozous 7121-25-7-20=3981. foreau 75 calcar 20 ECTOS tissues - BRS gkin, skull, partial skel - AGIC 57. 410649 Tadarida 9-119-44-11-22=21.9g. foream 48 wrinkle lip calcar = 9 ECTOS Skin, skull, skel- C. Wordnergt } (AG.C.) +734rues - BRS 58. 410650 Tadavida \$ 135-41-9-20= 2581. Calcar not obs. alc - AG.C. NO tissues ECTOS

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Stein, BR		
Stein BR 1988		
	+	
1,	#2 Bat Cave CONT.	olicata.
Aug. 59.	410651 Tadanda	114-40-11-21=22gr.
	alci, Tissnes - BRS	plicatae 114-40-11-21=22gr. foreau 50 calcar 10
	ectos	- Dead in net
60.	/ /)	8 120-28-11-25-32p.
- Andrew	ECTOS	Calcar- 73
	NO tissues, alc -	AGC. Dead innet
6).		9 120 - 31 - 14 - 25 = 3481
	ectos	9 120 - 31 - 14 - 25 = 3481 foreaux 74 calcar 22
	alc., tissues - BRS	Dead in net
62.	410654 Taphozous	
	ECTOS	9 116-25-16-24=32q. boreau 74 calcar 22
	alc, tissues - BRS	Dead in net
63.		\$ 130-28-12-27 = 40gg
	ECTOS	\$ 130-28-12-27 = 40gg foream 75 calcan 20
	alc, 135ves - BRS	Dead in net
,	pres lactating	
64.	4,0656 Taphozous	8 123 - 22-10-25 = 40g
	EC705 rust-colored ventral surf	d fur foreaun 75 = 40gs we of neck calcar 21
	alc, 1735ves -13RS	Dead in net
65.	Y10657 Tapozous	8 123 - 28 - 13 - 26 = 3282.
	alc, tissues - BPS	foream 75 calcar 21
	ECTOS -	Dead in net
1666,	410658 Taphozous	f 117-25-13-25=32g.
	EC705	foreau 74
	alc., +35 sues - BAS	Dead in not
67.	Y10655 Taphozous	9 125 -12-14-13 = 3/51.
		Boreau 74 Calcar 19 Plad in Net
	alc, tissues - BRS	Head in net

tem, BR 1988 #2 Bat Cave, CONT. 4 Aug. 68, 410660 Taphojous 9 118-27-12-24=30g. foream 75 EUTOS calcan 19 ale, tissues - BTB Dead in net 69. 410661 Taphozous 9 114-25-11-23=32g. foream 73 calcan 19 ECTOS ala, tissues - BRS \$ 44 A9 14- 23-43000. Dead in net # 2 Bat CONT. 70. 410662 Taphozous 9123-26-11-26=2981. foreau 71 coll. 14 Aug. calcar 20 alc., fissues - BRS 71 V10663 Taphozous 4 125-27-10-25=338. foreaun 74 Call. 14 Aug. calcar 19 E CTOS skin, skull, partial skell - AGC. tissues - BRS + muscle 9116-20-9-23=298 72. 10664 Taphozous foream 72 ECTOS calcar coll. 14 Aug. tissues - BRS + muscle Area #2, nohs lung yurnar 73. V10665 Asellisan stoliczkanus Por 75-36-6-11= 4.5 gr coll. 14 Aug. - dead overright A (c MASSING HARASS-AGC Mr. belly, deepret earst eyes, ears almost tubular



Herr, BR 1988 HARBOUR REDENT. Area # 2, Menglung 15 Aug. 74. Y 10666 Rhinolophus & 74-18-6-18 = 7.581.

Coll. 14 Aug. - dead overnig († calcar 7 mm alc. - AGC. no fissues The This spec. has 3 hard calcaneous capsules left in fact. Area # 2, Menglung, Yunnan Prov. 75. 410667 Rousettus \$ 133-18-21-20=52gn. foream 75 coll. 14 Aug. - dead calcan 7 alc., tissues -BRS Chromo - V. Cheate #2 Bat Cave

16. 410 668 Tadarida plicata 19 110-36-11-20=229.

boream 48 coll. 14 Aug calcan 7 perg. - fetus preserved as ¥ 10668 + I vial blood! tissues, ale - BRS 77. Y10669 Tadarida 8 118-48-10-18 = 20gr. coll. 14 Aug. calcan 14 Ectos Sicur, stull, + partial skel - AGC. tissues - BRS + muscle dirono - V. Charte master - chaerephon 410670 Tadacida plicata 185 114-40-9-21 = 20gr 28. cell. 14 Aug. EC705 tissues, alc - BRS chromo - V. cheate



Hem BR 1988 #2 Bat Care 15 Aug. 79. 910671 Factorida plicat af 115-43-10-21=249.

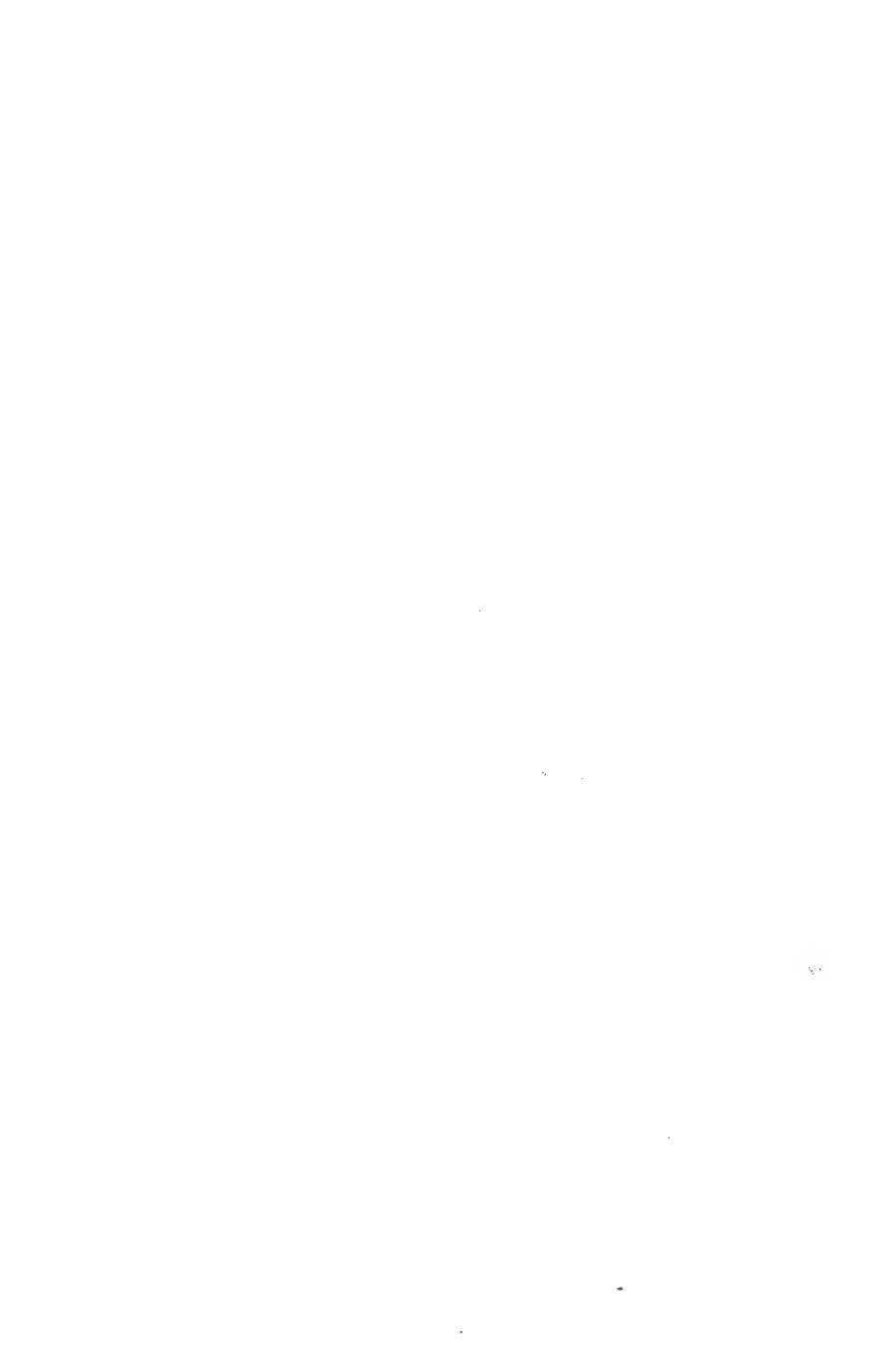
Coll. 14 Aug. pag. - AGC has fetus calcar 7 Chromo - V. Choate - from Sternum alc, tissues - BRS + muscle + I vial blood Ectos (chest gone - perhaps should make skel.) 410672 Tadavida plisate \$ 117-42-11-20 = 25 gr.
call. 14 Aug.

calcar 11 roce. - fetus preserved by A.G.C. alc, tissues -BRS 81. 410673 Tadavida plical 2 115-41-9-21=25g.

coll. 14 Aug.

calcar — Chaerephori preg. - fetus used to extract chrono. tissues, alc. - BRS + 1 blood vial 82 410674 Tadavida plicate 109-42-9-19=248.

Coll. 14 Aug. calcar — calcar preg. - fetus preserved in formalin -BRS + 1 blood vial alc., tissues - BRS 110675 Tadavida plicate 110-36-9-22 022p. foreau 49 coll. 14 Aug. - spec: bloaded! elc, Homenson BRS Dead in bag? EC105 114-46-10-21 = 20g 410676 Tadanda 84 coll. 14 Aug calcan ECTOS partial skel - AGC Skin skully tissnes-BRS



tein, BR 1988 #2 Bat Care plicata \$ 114 - 37-12-20=19g 15 Aug. 85 Y10677 Tadarida ECTOS alc., tissues - BRS + 1 blood vial Call 14 Aug. pream 50 y 10678 Tadarida call. 14 Ang. calcan -ECTOS - some blood in uf tissues alc., tissues-BRS 87 410679 Fadarida foream 49

calcar coll. 14 Aug. ECTOS alc., tissues - BRS preg. fetus preserved in formalin - BRS 410680 Taphozous 8 116-32-16-24=30gg. foreau 72 calcar 20 call. 14 Aug. ECTOS chromo (forearms) -V. Choak alc., tissues - BRS (Someblood w/ tissues) 4,0681 Taphozous or 118-31-14-26=28g. foreau 72 coll. 14 Aug. calcan zo ECTOS (foreamus) chromo - V. Choate some blood uf tissues) alc., +35 ues - BRS or 118 - 30 - 12 - 24 = 31g 90 Y10682 Taphozous EC703 Skin, skull, skel AGC + muscle + some blood tissnes- BRS

\$5.

Hein, BR 1988 #2 Bat Care V10683 Taphozous 15 Aug 91 9-123-35-15-27=33 g. coll. 14 Aug calcar 20 ch romo (foreamus) - V. Choate alc., tissues - BRS (someblood uf tissues) 92 Y10684 Taphozous f 123-35-15-26=36g. foream 76 coll. 14 Aug calcar 21 lactating-nipples in ECTOS upperpectoral Skin, Skull, partial skel - AGC. @ cinnamon brown pelage -> diff. colorphase? diff. sp.? W) muscle + some blood tissues pote - BRS eyes-v. choate \$ 123-33-15-27=36g.
foreaun 72mm
calcan 21 93 Y10685 Taphozous call. 14 Aug. lactating -nipples in upper pectoral area ECTOS (lice) Ecinnamon brown pelage Skin, Skull, + partial skel - AGC tissues - BRS eyes - v. choate + muscle 8 119-30-13-25=32p. 410686 Taphozous foream 74 Call. 14 Aug. calcan 21 ECTOS alc., Hissues - BRS 8° 105-10-17-21=46eg. foreaun 73° calcar 7 Y10687 Cynopterus ECTOS alc., tissues-BRS + 2 vials blood

tein, BR 1988 Area #3, nenglung, Vunnan Prov. - amongst rocks 15 Aug 96. Y10688 Rathus?) M. 7 7 7 20-180-28-22 = 70g. 2 pr. pectoral + 2 pr. abdominal manumae fail bicolored, distal 14 bleached white, tip of tail of dark treft, T>HB dosal surface brownish grizzled uf black HF + forefeet white dorsally white ventor of distinct demarkation laterally throat white gut length - 9. Hickling reprotract uf tissue - BRS + muscle (Zvialo) Skull fouly?) - AG.C. (for Musser to I.D.)
ECTOS eyes-V. Choate chromo femus) - V. Choate

Y10689 Rattus(?)

gut length - G. Hickling

* tail broken-tip of tissue+alc - BRS Same body description as \$10688 EYES + chromo - V. Choate (femur) alleun AT & MOBILE PUBL eye uf catoract 98 1/690 Rathus Marathus 9 380-210-33-24=1228. tail mono color, bl. Scaly, T7HB supples - 2 pectoral, 3 pelisic ceyes-V. Choate tchromo (sternum gut - G. Hickling alc., tissues - BRS rt. hindft. caught in Sherman Rep for grizzled 1 con. belly



stem, BR 1988 Area #3, menglung, Yunnan Prov. - CONT. 410691 Niviventer (2) 4318-176-29- =688 Holder Mary 2 pelvic, 2 pectoral manual bicolor tail, buff belly. light down on HF fur uf spines dorsally nibbled by aut - I no ear measurement collector = BRS + muscle alc, tissues - BRS 4 embry 05 cought in snap trap in sparsely wooded area guts - G. Hickling 410692 Niviventa! Julusceus & 340-190-31-20=88 gr. coll. 15 Aug. dorsal course black guard harts on rust brown, ventor creamy. tail bicolored : checks light brown. Tops of feet brown of the wh. marging tizzmes BRS (zvials) gut - G. Hickling skin, skull, partial skel -AGC Bat Care #4, ca. 10 km E. Menglung, on opp. side of stope Y10693 Hipposideros arminger \$ 165-58-18-34=578. foream 93 calcar 23 alc., tissues - BRS Chrono-V. Choate (forearm)
brown ngggg body color on dorsum; of cobra-

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stem, BR 1988 Bat Care #4 CONT. 6 Aug. +138mes - BRS Chromo - V. Cheate Skin, skull, partial skel - AGC 410695 Hipposideros armerges \$ 159-58-16-34=56, foreau 93 calcar 20 +issues - BRS Skin, Skull, partial Skel - AGC eyes, chromo - V. Cheate dark brown dorsum, lt. brown ventor 410696 Higgsideros amujes 7 157-67-19-32 = 558. foreau 94 dark brown dorsum ECTOS alc., tissues - BRS 410697 Hipposideros arminger 9 162-65-11-35 =45, decketary dorsum calcan 19 ale, tissues - BRS Q160-62-12-36 =54 410698 Hipposideros armigen foreaun 97 dark brown dorsum calcar 20 ECTOS ale, tissues-BRS 8 155-60-16-33-576 107 410699 Hyposideros arminges ECTOS calcar 22 alcoholic - AGC (wanted "complete" spee) NO fissues HATAROSSIBLE dark brown pelage

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stein, BR 1988		
Aug. 108	8 Y10\$\$00 Hipposideros arminges & 1 ECTOS	155-58-11-35=508-
``	ECTOS	calcar 19
	eyes, chromo - V. Choate	
	skin, skull, partial skel -	AGC 8817
	Hismes-BRS	
109	VIO701 Hipposideros armygen 9 mg	53
	alc, 158 sues -BRS	foreau 93 calcar 23
	(1)	car car es
	no ECTOS - dead in bag	
	greg pelage	
110	110702 Hipposideres armitges or	Horeau 98
7		calcan 23
	alc, tissues -BRS	
	dark brown	
11 1 11	410703 Hipposideros arminger 916:	2-62-16-35 =52
,	ECTOS	calcan 21
	dark brown	
	alc, tissues -BRS	
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Stein, BR 1988 Elevation / Lat. / Long. 15 Aug. From C. Wozen craft ca. 600 m. mergling 101°17'E 21° 55'N Area #1 21°57'N ca. 650 m. 1010111 Area #2 21°53'N 101°18 'E 700m. 21°57N 101° 20'E ca. 950 m. Area #3 Station 21°55'N 101° 16'E ca. 600 m. #1 Bat cave 21"53" N 101° 18'E 21°55'N 101°20'E # 2 Bat Cave was in area #3 - we netted there #3 Bat Cave one night but no captures #4 Bat Cave - la. Hipposideros arminger - on granite opp. side of mt. from cave = 2 1st nixe Szmao (570 km.) 1st huch Tun Quar. 19 \$ 2nd nite Yenjiang 12/2 2nd Lunch - Yu Xi San

B.R. Stein 1988

Journal

China: Menglung, Yunnan Prov.

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tein, B.R. 1988

> 2 Aug. a. 2 Km. outside Mengla, Institute of Ecology, Academia Sinica Field Station, Menglas Yunnan Prov., PRC. Drove south from Keinning 700-712 km., turned east on 1st major/only turnoff. Continued ca. 60km. to field station. Arrived about 7:00pm. About 9:00pm · Split into 3 groups - one set 3 lq. live traps for carnivores, one set up a mist net, and ours set out 2 lines of Victors + museum specials. Used p.b. but expect little as auts will get it unless we have more substantial bait. Drive in was continual up + down over the mountains This is obviously rainforest but the extent of cultivation is enormous (and impressive in view of the human power used to terrace the hillsides). Brief intermittant rain showers along the way. Wout be able to assess vegetation in the immed. Vicinity of the station until morning. Actually flew from Kunning to Signao + drove from Symao to station. Itowever, Km. markers are from Kunning. Flight was prop. plane flying ~5,000 alt.; took 1/4 hrs. Symao is the southernmost airport in China. 4p at 7:15 am. to check traps. Because China 3 Aug. has no time zones it is still dark. We must be ca. 2 hr. west of Beijing in terms of the sum. Went to see where Art had set up bat nets. Must have had 6 Rousettus - but he is lefting them go! He checked them once, about

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Stein, BR.
1988

3 Aug. an hour after he put them up t then left them
all night. Can't believe he's letting stuff go—
he says they've so common in Yunnan! Hope

all night. Can't believe he's letting stuff go he says they're so common in Yunnan! Hope we can change his mind. He wants everything live for ectoporasites and may frown on our snap trapping. graham Hinkling got one Niviventer on traps we set at the last minute under the bridge by the main building. He wants guts, I'll tissue + then pickle. We are definitely not in primary forest althoure did Seen to drive through such an area about 10 min. before arriving here. Also the sustitute has control over such an area which they did (would not even let us look at last year but are willing to this year. Nothing will probably be done until Wudelin gets here tonite. Art is now negotiating to get some lab space set up so we can begin processing animals. With the Chinese everything is one delay

The area where our traps were set has palms,

6' squasses, and rubber trees being tapped. The

bat nets went up in an area that had been cleared.

At 2:30 we were to go to 1° forest - instead got a

tour of rubber, tea, coffee trees in the experimental

station. Were finally taken to a small area of

2° forest to trap. Set out Shermans, Victors,

Museum specials + one 1g., high bat net. Won't be

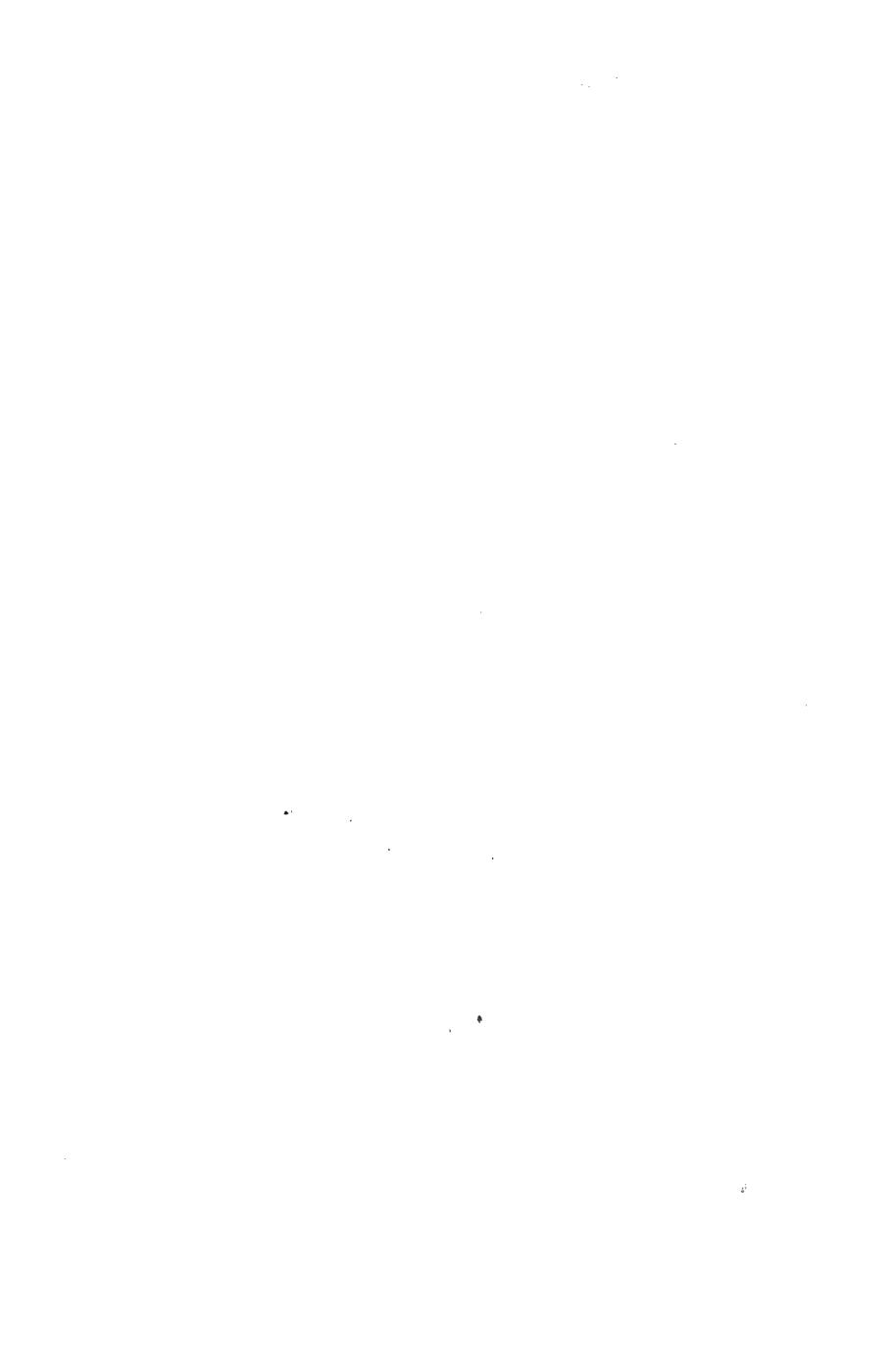
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tein, B.R. 1988 4 Aug unusual rock formations. Sawan old termite faut mound uf large opening -> pargolin had been feeding there in the past. Bot a bamboo rat from the locals for 6 yuan! Graham will keep it alive and try to get it to cat so he can measure digestive efficiency, etc. I've asked Art about the possibility of getting one pickled and there seems some hope. One way or another this one will end up as a specimen as Graham has no permits to bring things back to New tealing The locals also had I large monitor lizards they would have been happy to sell (they're sure we're eating the stuff) but, also, no permits. With much fanfare + commotion caught a Hipposideros in the room next to ours last rite. Art wants chromosomes - maybe I'll get the Light rain all night. Split into 2 groups to check traps. Chis + I went back to area number #1 - nothing, altho many of the traps had been sprung. I think it may have been the rain? The End group fared no better, not even bats. From here on in we'll probably concentrate our efforts in area no. #1. We'4' reset tonite and add a line of Shermans Area #1 at least had more signs of animal life Still overcast this morning altho no rain.

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5 tein, BR. 1988 Will use the free time to pickle the toad + the very small lizard I just grabbed. & Aug. Rained hard all night, stopped by morning, started again by the time we checked traps - Nothing! Much of the bait gone or Victors set of - I think due to rain. The trail is really takinga beating. Back at 10:00 am today (Us. 9:00 am previously to give you anidea ghow the mud is making this all po much fun). Lunch at noon, out again ~1:15 pm. to set them. By men 1:30 pm. it began to donoupour! Took off my glasses for the day - absolutely no way to see of them in the driving rain. Setting is a bit of a joke, there's probably better ways to do it in pouring sain but I'm still learning. If the forest is full of fruit why should they eat ours? Some may also not be this close to the trail. So far for bait we've tried potato, p. b., oat, peanut, banavas, principple, worms. By the time we reached the siver bed it had swallen to 35' + was moving fast! he five of wo walted downstream a ways, stowed an Sear high, buked arms, + made it across in Crotch deep 450. Drives was crusing a stretch road looking for us. Such fun. However, graham T Chis did find



Hem, BR 1988 NOT TO SCALE KUNMING 6 Aug. #2 Bat Cave = Divion #10, Rubber Tree Farm (=Simao) Szmao & from kunming Bat Care \$ 2 MENYANG Area# 1 MENLUNK VIET Smithsomian NAM ca. 161-162 0 MENFLA BURMA LAOS

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stein BR. 1988 Rain most of the night. Nothing in the traps at area #1. Some still have the bait untouched. Two bats collected in ret at entrance to area # 2 - one Rousettus, one Cynopteus-Artsays a new sp. from this region. Really discouraging. Decide to try one more night at area one. Reset all traps, moved those if any indication of auts or if unlikely placement - hope springs ... Rained from 8: vopm on last nite - pouring from about 2:00 Am till dawn - No way can we check area #1, the river will be too swollen, to say nothing of the trail itself which would be like a giant plolain mud course. Art went to check but nets at area # 2 after breakfast. The bamboo forest trip is postponed yet again t we've been ufo the for 24hr, going on 36hr. Rained tell 11:30 am. Caught 2 bats again in area #2. After lunch the woman in the kitchen produced a Herpestes javanicus. She had mentioned yesterday that she had one in her yard so Steve gave her a trap. Its small but he may try putting a collar on it nonetheless Headed out to pull all the traps at area #1. The blue Toyofa made it to ufin 2km. of the trail, then died. Not surprising since the oil light has been on t the thing is missing 3rd gear. We walked to the trail - only light name thank goodness

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Hein BR 1988 8 Aug. All the traps still ampty and will need lots of cleaning. Am glad that's our last trip as the trail has really been alresed. Chies caught a Small skink (?) for ne. Doret understand Why we havent seen any salamanders! Graham caught 2 more rats for me - this time we traps set out by our kitchen. I hate to pickle everything but its the only way & know of to get it out of here. Steve did collar the morpoose + they managed to track it down after dines. Art is putting out another but net. Spent the evening tissing the day's catch. Comorrow af our traps go over 9 Aug A second mongoose, samesp., was brot un last rite. Steve collared that one too + Karen has stayed back today to track them every 12hr. while we go set traps. At decided the bamboo set wouldn't live another day so he decided to take eyes, femme for chromo. gut, tissues, + then decided the skin wasn't so great - so I got to pickle it. Yeal for our side. The trail to area # 2 is as bad or worse than that for #1. To hand holds! Put out 100 phermans, some tomahawks T conabears, then guit. Left the remaining traps up there

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Stem, BR 1988 9 Aug. to be set tomorrow. Gaham + Chiis went to the bamboo forest" today - a real disappointment - a very small patch or area that has been cut, burned, + grazed. Lots of leeches - no bamboo rats. Talk is now for us to visit the new mengla Field Station on the 11th. Want to go but hate to lose the trap nites as our success is so low- This will probably be an oversight tup; roads + conditions dubious. The several weather pattern since the first few days has been ram most of the night; cloudy early morning, row late morning, cloudy midday, light to heavy rain afternoon, on + off again early evening t on again at nite. Very humid always but not excuciatingly hot. A busload of Chinese arrived last nite - tourists, But why here?! Rain during the nite. One Pipestellus in the net this D.M. Art leaves the nets open all day, doesn't move them, t doesn't check them during the night. No rain this a.m. of afternoon. Five us went back to area # 2 to check traps + close them rest of the Shermans + "snaps" so they'll be in place to bait when we return, only

64ein, BR. 1988 one Rattus, of that had 5 yg. in the trap. How 10 Aug. disappointing. Those time reading than in The field but these are the only areas they'll let us work. Dr. Wu got uptet because Chus wandered off to do some exploringwas apaid he'd get lost - ha! What's worse, he missed lunch, a positive sin by Chinese Standards. They never miss a meal. Chies claims to have found "pamboo rat heaven! I'd love to believe it was po. Today the perverbial shit hit the fau. Our plane reservations from Kunning to Horp Korp are screwed up t no one here is capable of Straightening things out. We may have to have here as early as the 14th if we are to get to H.K. in time for our flight -There's no way we can cancel those tickets, But what put the icing on the cake was our trip to mengla today. Beautiful weatherno rain for 24hr. Art checked the bat net in the nubber tree grove at 7:00 am. only to find it had been stolen. We leaded the cars before 9:00 am. + headed That continues east from this field Station. Beautiful mountains, most of which have

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Stein, BR 1988 been cleared + planted. Rice primarily, but also com. We arrive in mengla + are told et would be an hour until lunch so we get a "sightseeing tour of town to kell time. Lots of PLA here as we are near the border now. After hunch it is just 19 km. North from town (the only big road heading north out of town) to the site of the proposed Mau-in-the-Biosph Smithsonian Field Station. This is 1° forest. The tallest trees eve have seen in China. The Reserve has been divided into 2 sections, one north, one south of the road. The narrow neck of road and the land on either side of it is not part of the Reserve and hence, cultivated. So we finally anive, the weather is glorious, and we are told we have 50 min. + then we head back! We could not walk too far up the road - too dangerous. not too for into the forest - might get lost! That's when Art really began to lose it. (I, personally, would have thown a gasket 2 days ago, and nearly We stopped on the way back to the the 2nd bat net which had been up 24 hr.

Hein BR 2 Read bats (which Art let me pickle), one live but (which should have been put up tomite twill probably be dead by tomonow), + 4 dead birds. What a waste. Dr. Wei, the ornithologist, took the birds, and tomite I paw them lying out on the window pill of identifications But what will he do uf them? Nothing probably. Wei has the most potential, to the most independent, but seems 50 handicagned by the system. How hard would it be to learn how to pickle birds We got back in time for duner, one & could have done easily upo, + I asked Art about setting the sherman's toute hone of his undergrads has any real motivation and I could feel the negating messages from around the table as & even raised the pubject. Art was to the point of steaming about the plane tickets as again www had made no headway on the problem all day, Art looked alound t taking his cue from seople's foces said we'd just set them in the morning. As I left divines Gaham set them. I would not have considered

Stein, BR 1988. it except that up rain for 24 hr. I Knew that the trail would be as good as we might hope for. getting a durer was another matter. God for bid they Should have to work. Art + vicke went out to set up another net in place of the one that was stolen. V didn't want to dawdle as it would be getting dark. Wie was throwing a fit - he felt he should go, then wid need a vigger car. Different car means different auver, more delays. Y just said, "Let's go" Twe took of. Graham + I did the line, up t back in record time. Sot back, showered, + Art sent word & could pockle the 2 dead bats. As I went to the lat to work on them he was there. Turnsout That wu t Patricle got a 2nd cant followed them to the netting area That's when Art let him kaine it, told him he'd uf hold \$ for lost days, deduct

Here to work, not "sightsee", what Kind of sloppy operation was this, and he just might not come back next yr..... Andy Smith Said you can never lose your

34em, BR 11 Aug temper of the Chinese but I have to side of Art. How long do you let them jerk you around: How long do you let them play the & same. and for what? neither of these I forest areas are any thing like the Reserve area we visited to day. Both are much larger than we've seen yet we are restricted from exploring. Doth are trafficked by "tomists" recause the Chinese have no sense of ecology + letter merculessly. and yet they are so sure they are right. This area is beautiful, even the cultivated fields, but there is so lettle get left and it is popoly maraged, or not maraged at all. I do not regret a minute of this trip and in many ways it has treen most successful. But I amaloo exceedingly grateful that I have no need or desire to establish a long-tem research program here P.S. Since I got a but "testy" of Patrick 2 days ago the water has not been turned of once! How much bulls het do they think I'll put up uf Muracle of muracles - Mr. Fang, Dir. of the 12 Aug. Ecology dust. in Kunning, has confirmed



ceiling. Undoubtedly there are numerous small entrances + exits over which we have no control. The care itself averages 12' in height, 30' at the rear, tapenry off in

12 Aug. several areas. Evidences of old cauptires means we are not the first or the only visitors. The care, main chamber, is easily 50 in length, There are 4 steps down unto the main chamber from an outer room + some of the walls have been plastered The best guess is that it was used by one side or the other during W.W. II or the Japenese unasion. I would expect The hillsides are full of such caves 4 that some might be / have been whalited by the locals Our guide Scampered around + caught us one Rhenolophus by hand - such a serfect horseshoe noseleaf - much more unpressing When alive Than dead. The cave itself is probably 20° cooler than the outside air which today was hot & humid. You can fell The temp. drop as you approag through the regetation. Water drips on the inside. Most of the area leading up to the cave have been cleaned, some 2º growth remains. Graham T Michelle spent a long, hot day trying to place our one bamboo hat live trap - which they eventually did. A brug, hard sun shower het about 4:00pm - event to make the trails a mess tomorrow,

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Stein, BR 1988 showers upon our return. Art mentioned this Cherese great / 40 correlation to Patrick who was most indignant. But nowater to day and no water tomorrow - it's Sunday! Cleaned treps tonite - yeak, then tissues. The word on the balt trip for toworrow is There is no word right now. After dinner they paid we couldn't get boats. That was charged to too much pain upstream, water too dangerous. Then there was the excuse of the wild elephants bein dangerous. We should be so ludey to see an elephant. I don't know about ups team but we only had light sprinkles this afternoon in the way of rain. I can hardly want for tomorrow. 14 Aug. Another cloudy A.M. Six of us were to go to area #3 of 1° forest. No best, it was decided we would walk. Picked up our forestry guide, a 20 school student to help carry traps + the Director, Mr. Wei + Patrick went along for the fun. Started walking from the Dai village, through the cultivated fields + ptraight up the hillside like we've seen the villagers do. It was long, hot, steep and just a bit & lick. A beautiful view from the top. You could look out t see how for miles + miles the forest had been cleared for agriculture. We hiked for about

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14 Aug an how which but no to the edge of the primary forest. Passed through a bamboo forest briefly Patrick went on about the dangers - wild elephant tizers, the white buffalo, etc. althouse 3 is the largest of the 3 preserves once again we were only allowed on the periphery. How frustrating. And we had dragged all those traps along uf us. I set about 80 altho the habitat seemed much The same to me as In the other areas we had worked. Had we gove by boat I can only guess that we would have approached the reserve from the other side and the climb world have been just as arduous. got back about 3:00 pm. all the others had Some out to a new bat cave, along the river about 10Km. further past the 1st cave of yesterday. It began to pour around 4:00pma hard, 5 teady driving rain. We waited. The other retrieved about 6:30 w) a net of bats, a veritable gold nume. Mostly 2 genera - Tadavida + Taphojous. Art started on the dead ones first, the live ones he'll seve till tomorrow (but they may be dead by then). What he wasn't up to Skenning, & got to pickle. I tissued everything there it is midnife. I think he got 5 others at



5 tein 13R 14 Aug Cave #1. The rain continued tell just a short while ago. I can't begin to think what the hellside will te like tomonas + the troops are fighting not to go. Stere recovered one abandoned radio collar today- in a woodpile 10 min. walk from here. It way have been sunday but we had water all day until 6:45 pm but no electricity. Electricity went on about then, died once about 9:00pm + will probably croak any Minute now.

15 Aug. Light rain this morning. Up uf the electricity and inapped up some of the alcoholics to make soon in the bucket for what we'll do today. After some discussion & was able to stay here and tissue specimens while Chies + Tray went back up to area # 3. Store, Michelle, + Graham went to area # 2 to get what traps nets - just over bat, anothers + Troy took 2 nets to area #3 + came back of 4" Rats -3 Ratters?), 1 Niviventes. Rain let up late morning. Started to pack up study skins + Wir came by all excited - caut pack till tomorrow after the forestry service guy cornes + checks our specimens - we must pay for them. The alcoholics technically don't exist. Just

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Stein BR 1988 need to keep my fustrations in check for 15 Aug 2 more days. 4 Rat caught in high, rocky area where graham set traps. Prepared all but the one Nivivents - Art too fined and he feels it is special. I caught a rat! In the 2nd to last Victor in 16 Aug my line. Didn't get of till 9:30 am. Started walkers from the station. It took 1/2 hr. to get up to área #3. It was a whole lat easier u/o hauleng a bag of traps. ho pooner did we arrive than the rains ptarted. Pulled all the traps + redustributed them among the 8 of us, then headed down again. Used my walking Stick ulich really made a difference. Grahamt I walked ahead and had a rice talk. Asked me if I'd be interested in corners back again not necessarily for to Clina, but to SE Asia. We would put together our own group and do it right. He's gurete, than I am but he is just as furstrated. Art got about a dozen bat, newsp. mayle, now he thinks it just a larger Hipposideros.

arminger. Anteresting how each care or area,

particularly the cares, have only one or 2

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